

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FC-11-PCT	FOR FURTHER ACTION	(Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No. PCT/US03/21706	on No. International filing date (day/month/year) 11 July 2003 (11.07.2003)		(Earliest) Priority Date (day/month/year) 17 July 2002 (17.07.2002)					
Applicant HESKA CORPORATION								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
1. Basis of the Report		.						
	وماه سا ومناوره المساهور وماه كو وليوا واله مو ويو الواردون ويور الرواز والرار الرواز والرواز والرواز والرواز							
	the international search was carried out on the basis of a translation of the international application furnished to this							
Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the internation search was carried out on the basis of the sequence listing:								
contained in the internation	al application in written form.							
filed together with the inte	rnational application in computer i	readable for	rm.					
furnished subsequently to t	his Authority in written form.		v 1					
furnished subsequently to t	his Authority in computer readabl	e form.						
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
the statement that the infor	mation recorded in computer read	able form i	s identical to the written sequence listing has					
2. Certain claims were foun	d unsearchable (See Box I).							
	Unity of invention is lacking (See Box II).							
4. With regard to the title, the text is approved as sub	mitted by the applicant							
	ed by this Authority to read as foll	one.						
ine text has been established	ed by this Addiornly to read as for	ows.						
5. With regard to the abstract,								
the text is approved as sub	mitted by the applicant.							
the text has been establish may, within one month from Authority.	ed, according to Rule 38.2(b), by orn the date of mailing of this inter	this Author national se	rity as it appears in Box III. The applicant arch report, submit comments to this					
6. The figure of the drawings to be published with the abstract is Figure No.								
as suggested by the applic	ant.		None of the figures					
because the applicant faile	d to suggest a figure.							
because this figure better	characterizes the invention.							

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/US03/21706

Box	Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	6.4(a).	Claim Nos.: 8-14 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule			
Box	п Ов	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
This	Internat	ional Searching Authority found multiple inventions in this international application, as follows:			
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Rer	nark on	Protest			

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT	PC1/US03/21/06
Continuation of B. FIELDS SEARCHED Item 3:	•
EAST, PUBMED, MEDLINE, SCISEARCH, BIOSIS, CAPLUS search terms: SEQ ID NOS: 32, 35, 38, 41, 2, 5, and 8, octoparmine receptor, f	lea, tick

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21706

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : G01N 33/53; C07H 21/02, 21/04						
US CL: 536/23.1, 23.5; 530/300, 350, 387.1 According to International Patent Classification (IPC) or to both national classification and IPC						
	DS SEARCHED					
Minimum do	cumentation searched (classification system followed	hy classification symbols)				
	36/23.1, 23.5; 530/300, 350, 387.1	by elastication by modity				
D	on searched other than minimum documentation to the	owtent that much decomments are included	lingth Galda annuhud			
Documentatio	on searched other than minimum documentation to the	e extent that such documents are included	in the fields searched			
			1			
	ta base consulted during the international search (nan	ne of data base and, where practicable, so	earch terms used)			
Please See Co	ontinuation Sheet					
•	·					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.			
Α	BAXTER et al., Isolation of a cDNA for an octopar		1-7, 15-20			
	from the cattle tick, Boophilus microplus, Insect Bi	ochemistry and Molecular Biology,				
i	1999, Vol. 29, p. 461-467.					
	HAN et al., A Novel Octopamine Receptor with Pro	aferential Expression in Drosonhila	1-7, 15-20			
Α	Mushroom Bodies, Journal of Neuroscience, 1998,		1-7, 15-20			
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	day and the state of the state					
	documents are listed in the continuation of Box C.	See patent family annex.	··			
* S	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic				
	defining the general state of the art which is not considered to be	principle or theory underlying the inve				
of particu	lar relevance	"X" document of particular relevance; the	claimed invention cannot be			
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	red to involve an inventive step			
"L" document	which may throw doubts on priority claim(s) or which is cited to					
establish specified	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step				
		combined with one or more other such	documents, such combination			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	c an			
	published prior to the international filing date but later than the	"&" document member of the same patent	family			
priority date claimed						
Date of the actual completion of the international search		Date of mailing of the international sea	ren report			
11 March 20	04 (11.03.2004)	0 APR 2004				
Name and mailing address of the ISA/US		Authorized officer	<u> </u>			
Mail Stop PCT, Attn: ISA/US		Rachel B. Kapust A. D. K. Yen				
Commissioner for Patents P.O. Box 1450						
Alexandria, Virginia 22313-1450		Telephone No. (703) 308-1123	V			
Facsimile No	o. (703) 305-3230					

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NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.